

09/870012
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 14:44:26 ON 20 NOV 2002

L1 407 S ERYTHRAEA
L2 113 S L1 AND ANTIBIOTIC?
L3 70 S L2 AND PD<1999
L4 19 S L3 AND (POLYKETIDE (W) SYNTHASE)
L5 67 S L1 AND MUTANT
L6 0 S L5 AND A34
L7 29 S L5 AND ANTIBIOTIC
L8 14 S L7 AND PD<1999

L4 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1997:682654 CAPLUS

TI The Molecular Basis of Celmer's Rules: The Stereochemistry of the
Condensation Step in Chain Extension on the Erythromycin
Polyketide Synthase

AU Weissman, Kira J.; Timoney, Maire; Bycroft, Matthew; Grice, Peter;
Hanefeld, Ulf; Staunton, James; Leadlay, Peter F.

SO Biochemistry (1997), 36(45), 13849-13855

L4 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1997:677565 CAPLUS

TI Acyltransferase domain substitutions in erythromycin polyketide
synthase yield novel erythromycin derivatives

AU Ruan, Xiaolan; Pereda, Ana; Stassi, Diane L.; Zeidner, David; Summers,
Richard G.; Jackson, Marianna; Shivakumar, Annapur; Kakavas, Stephan;
Staver, Michael J.; Donadio, Stefano; Katz, Leonard

SO Journal of Bacteriology (1997), 179(20), 6416-6425

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1996:678078 CAPLUS

TI A hybrid modular polyketide synthase obtained by
domain swapping

AU Oliynyk, Markiyana; Brown, Murray J. B.; Cortes, Jesus; Staunton, James;
Leadlay, Peter F.

SO Chemistry & Biology (1996), 3(10), 833-839

ANSWER 14 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1993:619166 CAPLUS

TI Method of directing biosynthesis of specific polyketides

IN Katz, Leonard; Donadio, Stefano; Mcalpine, James B.

PA Abbott Laboratories, USA

SO PCT Int. Appl., 133 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9313663	A1	19930722	WO 1992-US427	19920117 <--
	AU 9212450	A1	19930803	AU 1992-12450	19920117 <--
	AU 665526	B2	19960111		
	EP 626806	A1	19941207	EP 1992-905082	19920117 <--
PRAI	WO 1992-US427		19920117		

L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1993:164072 CAPLUS

TI 6-Deoxyerythronolide-B synthase 2 from Saccharopolyspora erythraea

. Cloning of the structural gene, sequence analysis and inferred domain structure of the multifunctional enzyme

AU Bevitt, Debra J.; Cortes, Jesus; Haydock, Stephen F.; Leadlay, Peter F.
 SO European Journal of Biochemistry (1992), 204(1), 39-49

L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:507162 CAPLUS
 TI Organization of the enzymic domains in the multifunctional polyketide synthase involved in erythromycin formation in *Saccharopolyspora erythraea*
 AU Donadio, Stefano; Katz, Leonard
 SO Gene (1992), 111(1), 51-60

L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:484379 CAPLUS
 TI Biosynthesis of the erythromycin macrolactone and a rational approach for producing hybrid macrolides
 AU Donadio, Stefano; Staver, Michael J.; McAlpine, James B.; Swanson, Susan J.; Katz, Leonard
 SO Gene (1992), 115(1-2), 97-103

L4 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:222270 CAPLUS
 TI An unusually large multifunctional polypeptide in the erythromycin-producing polyketide synthase of *Saccharopolyspora erythraea*
 AU Cortes, Jesus; Haydock, Stephen F.; Roberts, Gareth A.; Bevitt, Debra J.; Leadlay, Peter F.
 SO Nature (London, United Kingdom) (1990), 348(6297), 176-8

L8 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2002 ACS
 AN 1990:527617 CAPLUS
 TI Cloning of genes involved in erythromycin biosynthesis from *Saccharopolyspora erythraea* using a novel actinomycete-*Escherichia coli* cosmid
 AU Tuan, James S.; Weber, J. Mark; Staver, Michael J.; Leung, Judith O.; Donadio, Stefano; Katz, Leonard
 SO Gene (1990), 90(1), 21-9

L8 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2002 ACS
 AN 1990:31322 CAPLUS
 TI Cloning of genes governing the deoxysugar portion of the erythromycin biosynthesis pathway in *Saccharopolyspora erythraea* (*Streptomyces erythreus*)
 AU Vara, Jesus; Lewandowska-Skarbek, Marlena; Wang, Yi Guang; Donadio, Stefano; Hutchinson, C. Richard
 SO Journal of Bacteriology (1989), 171(11), 5872-81

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=> d his
      FILE 'CAPLUS' ENTERED AT 14:57:37 ON 20 NOV 2002
L1      626 S ERYTHRAEA OR ERYTHREUS
L2      218 S L1 AND (ANTIBIOTIC OR MACROLIDE)
L3      171 S L2 AND PD<1999
L4      31 S L3 AND MUTANT

L4      ANSWER 5 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1997:757974  CAPLUS
TI      Analysis of seven genes from the eryAI-eryK region of the erythromycin
        biosynthetic gene cluster in Saccharopolyspora erythraea
AU      Gaisser, S.; Bohm, G. A.; Cortes, J.; Leadlay, P. F.
SO      Molecular & General Genetics (1997), 256(3), 239-251

L4      ANSWER 19 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1990:435510  CAPLUS
TI      Molecular characterization of a gene from Saccharopolyspora
        erythraea (Streptomyces erythraeus) which is involved in
        erythromycin biosynthesis
AU      Dhillon, N.; Hale, R. S.; Cortes, J.; Leadlay, P. F.
SO      Molecular Microbiology (1989), 3(10), 1405-14

L4      ANSWER 23 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1985:610835  CAPLUS
TI      Genetic analysis of erythromycin production in streptomyces
        erythreus
AU      Weber, J. Mark; Wierman, Constance K.; Hutchinson, C. Richard
SO      Journal of Bacteriology (1985), 164(1), 425-33

L4      ANSWER 26 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1984:66522  CAPLUS
TI      Variability in nutritional requirement of an improved strain of
        Streptomyces erythreus for erythromycin production
AU      Mandal, S. K.; Chakraborty, B.; Roy, D. K.
SO      Indian Journal of Experimental Biology (1983), 21(11), 607-10

L4      ANSWER 27 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1977:171772  CAPLUS
TI      3-O-(2",6"-dideoxy-.alpha.-L-ribo-hexopyranosyl)erythronolide B and
        3-O-(2",6"-dideoxy-.alpha.-L-arabino-hexopyranosyl)erythronolide B,
        aberrant erythromycin biogenetic metabolites with defective sugar moieties
AU      Collum, Paulette; Egan, Richar S.; Goldstein, Alma W.; Martin, Jerry R.
SO      Tetrahedron (1976), 32(20), 2375-8

L4      ANSWER 28 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1973:121160  CAPLUS
TI      Limiting reactions in activation of acyl units in biosynthesis of
        macrolide antibiotics
AU      Raczynska-Bojanowska, Konstancja; Ruczaj, Zbigniew; Sawnor-Korszynska,
        Danuta; Rafalski, Andrzej
SO      Antimicrob. Agents Chemother. (1973), 3(2), 162-7

L4      ANSWER 29 OF 31  CAPLUS  COPYRIGHT 2002 ACS
AN      1971:139484  CAPLUS
TI      Biosynthesis of erythromycin C by Streptomyces erythreus
AU      Ostrowska-Krysiak, Barbara
SO      Acta Microbiol. Pol., Ser. B (1971), 3(1), 23-7
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WEST Search History

DATE: Wednesday, November 20, 2002

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=USPT,DWPI; PLUR=YES; OP=OR</i>		
L8	mutant with a34	2	L8
L7	mutant with a43	1	L7
L6	erythraea with mutant with a43	0	L6
L5	L4 and (erythraea same mutant)	18	L5
L4	L3 and synthase	59	L4
L3	L2 and polyketide	61	L3
L2	L1 and macrolide	78	L2
L1	erythraea and antibiotic	114	L1

END OF SEARCH HISTORY